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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/070,784	06/04/2002	Tillmann Korner	VO10226	9602	
7590 10/18/2004			EXAMINER		
John F Hoffman			LEWIS, TISHA D		
Baker & Daniels 111 East Wayne Street Suite 800			ART UNIT	PAPER NUMBER	
Fort Wayne, IN 46802			3681		
		•	DATE MAILED: 10/18/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office Action Comments	10/070,784	KORNER ET AL.	Gg			
Office Action Summary	Examiner	Art Unit				
	TISHA D. LEWIS	3681				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	nely filed s will be considered time the mailing date of this c O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowar	ce except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.			•			
6)⊠ Claim(s) <u>1,3-5 and 10-14</u> is/are rejected.						
7)⊠ Claim(s) <u>2,6-9 and 15-20</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	, , , ,		` ,			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior	-	ed in this National	Stage			
• •	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P		O-152)			
Paper No(s)/Mail Date	6) Other:	.,	•			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 20, 2004 has been entered.

Information Disclosure Statement

The information disclosure statement filed on May 20, 2004 has been acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-5, 11, 12 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsuboi ('823). As to claim 1, Tsuboi discloses a transmission unit having a transmission input shaft (12), a transmission output shaft (29), a transmission basic unit (via 3) situated between the input and output shaft and connected to an angular drive (via 20), the angular drive includes a first bevel gear (17), a second bevel gear

(18) wherein the second bevel gear is integrally connected to the output shaft, a transmission housing (3) including a base housing covering the transmission unit and connected to a housing cover forming a transmission housing cover (20) for the angular drive, the first bevel gear and a transmission element (43) constituting the output of the unit is directly connected (Figure 3) without a separate shaft and located in proximity to each other, the transmission elements do not generate axial forces on the housing cover, the solid connection having driving elements on the inner and outer surfaces of the connection between the bevel gear and transmission element and the first bevel gear is supported within the housing cover.

As to claims 3-5, Tsuboi discloses the driving elements between the connection of the bevel and transmission element being radially and axially oriented around the shaft part (13) of the bevel gear with the driving element of the transmission element being on the interior of the element of the driving element of the bevel being on an exterior of the gear for connection therebetween.

As to claim 11, Tsuboi discloses the angular drive and housing cover forming a modular unit that can be disconnected from the transmission unit.

As to claims 12 and 14, Tsuboi discloses the teeth of the bevel gears having a straight connection with identical heights.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuboi in view of Richards et al ('434). Tsuboi discloses a transmission, but does not discloses a hydrodynamic transmission component.

Richards et al discloses a transmission having an input shaft, an output shaft, a transmission basic unit (200, an angular drive (16, 18) connected to the unit, a hydrodynamic component (14) and a mechanical component (27).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide Tsuboi with a hydrodynamic component in view of Richards et al to provide a change of ratio of torque to speed between the input shaft and output shaft.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuboi in view of Chen et al ('918). Tsuboi discloses a toothing connection between first and second bevel gears of an angular drive, but the connection is straight not diagonal.

Chen et al discloses a transmission unit having an angular drive using first and second bevel gears (Figures 3 or 4) with diagonal tooth connections between.

It would have been an obvious matter of design choice to modify Tsuboi by having the first and second bevel gears connect diagonally in view of Chen et al since applicant has not disclosed that having the connection be straight or diagonal solves any stated problem or is for any particular purpose and it appears that the bevel gears will perform the same with a straight or diagonal tooth connection.

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Allowable Subject Matter

Claims 2, 6-9 and 15-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 872-9326 before final and 703-872-9327 after final. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence <u>not</u> permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check <u>should not be</u> submitting by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office (Fax No. (703) 000-0000) on				
Typed or printed name of person signing this certificate:				
(Signature)				

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TISHA D. LEWIS whose telephone number is 703-305-0921. The examiner can normally be reached on M-Thur 8 AM TO 3 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHARLES A. MARMOR can be reached on 703-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LEWIS EXAMINE: //04

Tdl October 7

October 7, 2004